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I. Brief introduction of digital camera

1. Characteristics of digital camera

- ⊕ High resolution images with 2.1 mega pixels;
- ⊕ Digital zoom function, 8.00X max.;
- ⊕ Software interpolation processing may reach 4 mega pixels;
- ⊕ Function of dynamic photographic recording;
- ⊕ Operation menu in Chinese and English;
- ⊕ Function of mobile hard disk. For versions of Windows ME or above, no install driver is needed;
- ⊕ 1.6" large colour LCD display screen for framing, photo preview and easy operation;
- ⊕ Function of TV OUT that enables you to preview photos and play AVI videotapes on ordinary TV sets;

2. Use of digital camera

- ⊕ Shooting high resolution photos;
- ⊕ Using digital camera as mobile hard disk;
- ⊕ Viewing images on TV;
- ⊕ Printing images with special printer. DPOF compatible printer or DPOF printing system;
- ⊕ Downloading photos to computer for saving or sending photos to your friends and relatives;
- ⊕ Editing photos in PC;
- ⊕ Establishing digital albums;

- ☐ Inserting images into PC files;
- ☐ Taking photos by yourself and making business cards with photos;
- ☐ Producing gift package paper with the photos taken with digital camera.

3. Accessories of digital camera

- ☐ One USB cable
- ☐ One TV connecting cable
- ☐ One CD of driver program and photo processing software
- ☐ One instruction manual
- ☐ One hanging strip of camera
- ☐ One warranty card

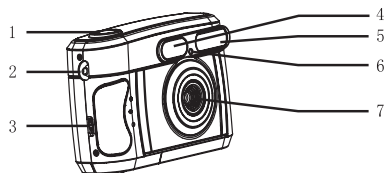
Note: Please check whether the above parts are complete before use.

4 . Optional parts of digital camera

- ☐ Two 5# batteries
- ☐ One protecting leather sheath of camera
- ☐ 5V external power supply
- ☐ CF memory card

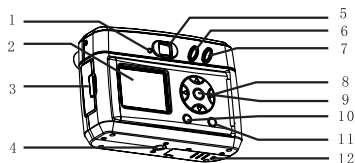
II. Structural sketch of digital camera

Front view



- 1、Shutter
- 2、Hanging rope buckle
- 3、CF card door switch
- 4、Viewfinder (front)
- 5、Flash lamp
- 6、Indicator lamp of self-timer
- 7、Lens

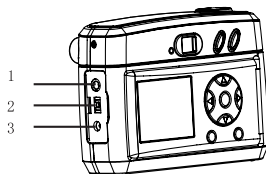
Back view



- 1、Indicator lamp of busyness
- 2、Color LCD display screen
- 3、Soft glue cover
- 4、Bracket hole of tripod
- 5、Viewfinder (rear)
- 6、Power supply on button
- 7、Flash lamp on button
- 8、Up/down and right/left key

- 9、Menu / confirmation key (middle key)
- 10、Displayed information on / off key
- 11、Framing preview mode switch key
- 12、Battery cover

External interface



- 1、TV outlet
- 2、USB interface
- 3、Socket of external power supply

III. Main performance and specifications

Image sensor	Model	1 / 2" CMOS
	Active pixel	Around 2.1 mega pixels
Lens	Focal length	1.0m ~ infinite distance
	Aperture	2.8
	Digital zoom	1.00 ~ 8.00
View device	Optical viewfinder	Real image optical viewfinder
	LCD display	1.6 " colour STN display
Focusing	Type	Fixed focusing
	Scope	1.0m ~ infinite distance
Shutter	Form	Electronic shutter
	Velocity	1/15 ~ 1 / 2000 seconds

Exposure	Control	Procedural exposure
	Correction	-1.5EV ~ +1.5EV adjustable
	ISO light sensitivity	Automatic
Flash	Mode	Flash disabled / Forced flash / automatic and pinkeye prevention
	Scope	Around 2 meters
	Charging time	Around 10s
White balance	Mode	Sunlight, dusk, tungsten lamp, fluorescent lamp, old photo:
Dynamic photography	Picture frame	320 * 240 pixels
	Record time	Record time is related to the capacity of CF card
Automatic shooting	Time delay	10 seconds
Storage	Media	Memory: 8M flash memory External: CF card, supporting highest capacity of 3GB
	File format	Static image: JPEG Dynamic camera shooting: AVI
Image pixel	High resolution	2304 * 1728
	Normal resolution	1600 * 1200
	Low resolution	1280 * 1024
	Video	320 * 240

Quantity of photos saved (internal flash memory)	High quality of interpolation	12
	High resolution	14
	Standard resolution	16
Interface	Digital output	USB
	Video output	PAL or NTSC
	Direct current input	5V direct current (500mA)
Battery life	National alkaline cell	Taking over 100 photos with flash lamp opened Browsing and playing the camera for over one hour with STN screen
External dimensions		Length: 109mm Height: 39mm Width: 72.5mm
Weight		158 g (not including battery)
Software		Driver, Photo Express, VideoStudio
System support	Windows series	Windows98, ME, 2000, XP

Note: The internal flash memory or the quantity of the photos saved in CF card will differ according to the data quantity of photos.

Requirements of operation system:

☐ CPU: P II 200MHZ MMX or higher

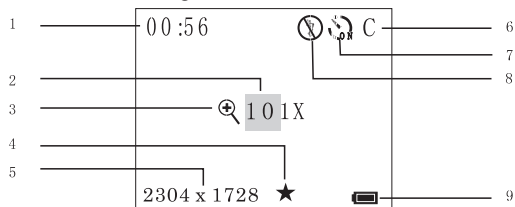
☐ Memory: 64M or more

☐ CD - ROM: 8X or above

- ☒ Display card: 4M or more
- ☒ USB interface
- ☒ Hard disk space: 2G or more
- ☒ Monitor: 800 * 600 or higher

IV. Notes to LCD displayed information

(1) LCD displayed information of shooting status



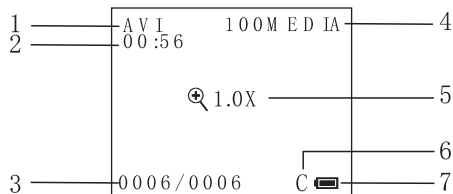
1. Display of shooting time
2. Count down of automatic shooting
3. Display of digital zoom
4. Image compression rate
5. Image resolution rate
6. CF card indication
7. Display of shooting status

8.Flash lamp indication

9.Display of remaining capacity of battery

NO	Description	Meaning of icon and instruction
1	Display of shooting time	00.65
2	Count down of automatic shooting	10
3	Display of digital zoom	⊕ 1.01X
4	Image compression rate	★ ★ ★
5	Image resolution rate	2304 x 1728
6	CF card indication	C
7	Display of shooting status	
8	Flash lamp indication	
9	Display of remaining capacity of battery	

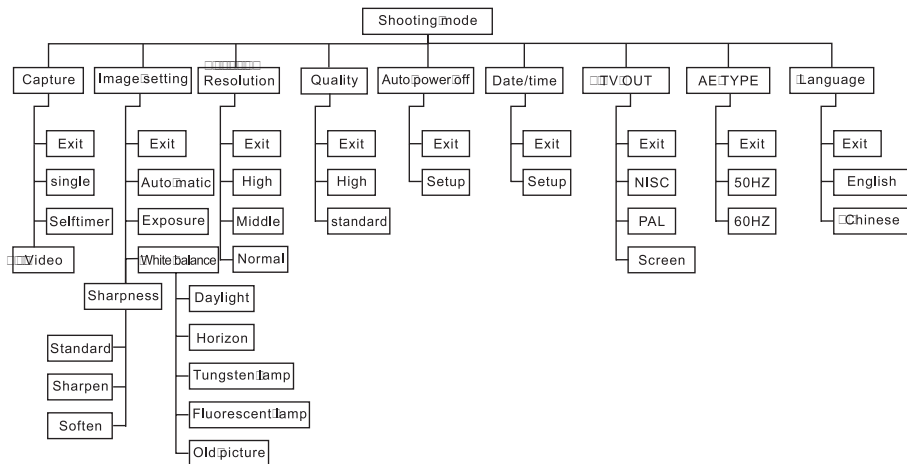
(2) LCD menu information of preview status

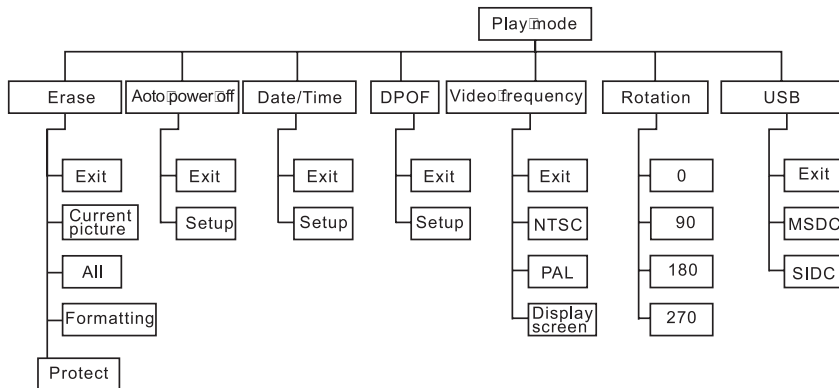


1.File format display

- 2.AVI shooting time
- 3.Picture quantity
- 4.Mega pixel
- 5.Magnified display
- 6.CF card display
- 7.Display of remaining capacity of battery

NO	Description	Meaning of icon and instruction
1	File format display	AVI JPG
2	AVI shooting time	00:56
3	Picture quantity	0006/0006
4	Mega pixel	100MEDIA
5	Magnified display	🔍 1.01X
6	CF card display	C
7	Display of remaining capacity of battery	 





Notes:

Exposure value: As digital camera adopts automatic exposure, the exposure compensates EV value. The scope of EV value of exposure compensation of this camera is: - 1.5EV to +1.5EV. At a place where the ray is too strong, you may adjust EV value to negative. On the contrary, if the shooting place is dark, you may choose high EV value.

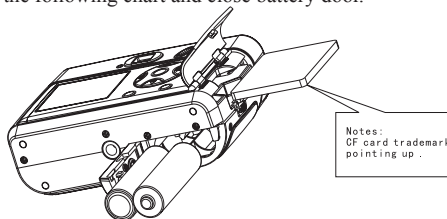
White balance:

The color of an object itself often changes with the color of projection light. The color of photos taken at places with different rays may differ. Human's eyes can automatically modify the change generated by ray. However, the digital camera does not have such function. The white balance of this camera is divided into sunlight, dusk, tungsten lamp, fluorescent lamp and old photo. White balance can be appropriately adjusted according to the objects shooting.

V. How to use digital camera

1. Installing batteries and CF card

- ④ Open the battery cover of the digital camera, insert two #5 batteries according to the battery direction shown in the following chart and close battery door.



- ④ Pull CF card door buckle. CF card door will automatically spring open. Insert CF card according to direction shown in the above chart.

Note: CF card trademark pointing up

2. Points for attention for using CF card

- ④ CF card is priority memory access. When CF card is full, the digital camera will automatically save

data to internal flash memory.

- ☞ CF card is optional. This digital camera supports CF cards of various capacity.
- ☞ When you do not use CF card, the digital camera saves photo data to internal flash memory. After power is off, the internal flash memory can save photos for long time.
- ☞ This digital camera supports hot pullout and insertion of CF card. However, for ensuring the safety of CF card, we suggest you should avoid hot pullout and insertion as far as possible.
- ☞ If CF card can not be inserted smoothly, please check whether the direction is correct. Never insert by force.

Note: Format the new card before use for the first time. Select file format when formatting the card in PC. The card can save data only after being formatted.

3. Shutting on/off the digital camera

- ☞ Confirm correct installation of batteries. Press power supply key for 3 seconds to open the digital camera;
- ☞ To shut the digital camera off, press power supply key for 2 seconds when the digital camera is on.
- ☞ If the digital camera is not operated within 180 seconds (default value can be revised), it will automatically be shut off.

4. Taking photos

- ☞ After opening the digital camera, aim it at the object you want to shoot.
- ☞ When the image on LCD display screen is consistent with the actually shot object, press shutter key.
- ☞ Then the shooting is completed.

5. Taking photos with flash lamp

- ☞ When LCD indicates insufficient brightness, you need to open flash lamp to take photos. The concrete operation is as follows:
- ☞ Press flash lamp on button.
- ☞ The digital camera starts to charge flash lamp. The indicator lamp on the left of viewfinder lights.
- ☞ The indicator lamp on the left of viewfinder goes out.
- ☞ Press the shutter.

Remarks:

- ☞ The frequent use of flash lamp will reduce the service life of batteries. Under normal status, the charging time for flash lamp is generally around 10 seconds. If the capacity of batteries is insufficient, the charging time will somewhat be extended.
- ☞ At the time of shooting, keep distance of 2 meters from the object to be shot. Being too near and too far away will affect the shooting effect.
- ☞ Never open flash lamp and take photos of infants within short distance.

6. Using the function of self-timer

- ☞ Fix the digital camera on the tripod.
- ☞ Aim at the object you want to shoot.
- ☞ Press menu key to switch to the mode of automatic shooting.
- ☞ Press shutter. The digital camera starts to count down from 10. The indicator lamp on the front shell begins to flash from slowly to quickly.
- ☞ When the indicator lamp on the surface shell of the digital camera stops flashing, the

photographing is completed.

7. Shooting filmlet

-  Press menu key under the mode of photographing to switch to Video mode.
-  Press menu key to confirm.
-  Press shutter key to start/stop shooting.

8. Using the function of digital zooming

-  Under the mode of photographing, press direction keys $\triangle$ and ∇ to realize the function of digital zooming.

9. Preview the photos and filmlets saved in the digital camera on LCD

-  Press   button.
-  All photos in your digital camera can be displayed on LCD.
-  Press  button to switch between sketch picture and single picture display.
-  Press $\triangle$ or ∇ to display the photos in magnified status.
-  Press $\blacktriangleleft$ or $\blacktriangleright$ to switch between the last and the next photo.
-  Note: The method of playing AVI is similar. However, you need to press menu key to confirm.

10. Deleting photos

-  Press menu key under the mode of photo preview.
-  Choose deletion of single photo or all photos.
-  Press confirmation key to complete the operation.

11. Displaying the photos or AVI on TV

- ⊕ Convert TV to AV mode.
- ⊕ Connect cables. The digital camera automatically switches to TV output and shuts colour display
- ⊕ Press ◀ or ▶ key to display the last or the next photo.
- ⊕ Press △ or ▽ key to display the photos in magnified status.
- ⊕ Pull out TV output line and the digital camera will automatically switch to STN screen display.

VI. Using the digital camera as mobile hard disk

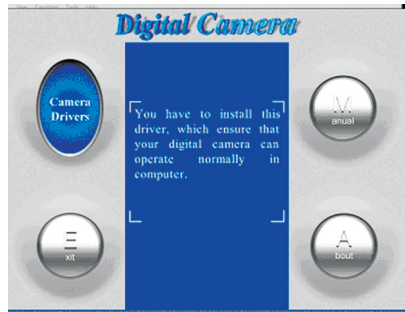
- ⊕ Open the digital camera and convert to the play mode.
- ⊕ Insert USB cable.
- ⊕ The digital camera displays MSDC.
- ⊕ Double click My Computer and two mobile hard disk will be displayed on My Computer.
- ⊕ Conduct access operation with Windows operating method.

Note: For Windows98 operation system, driver needs to be installed. For Windows2000 operation system, SP3 needs to be installed.

VII. Installation and use of relevant software of the digital camera

1. Installing driver of the digital camera

- ⊕ Insert the driving CD of the digital camera into the CD-ROM of computer.
- ⊕ The computer will automatic run and pop up a installation menu. If your computer does not automatically run the program, please run "SETUP" file under root directory, and the following figure will pop up.



- ☐ Click Driver button.
 - ☐ Install the driver according to hints.
2. Installing "Photo Express" photo processing software
- ☐ Insert installation CD.
 - ☐ Click "Photo Express" button.
 - ☐ Choose the operating language you need.
 - ☐ Install the software according to hints.

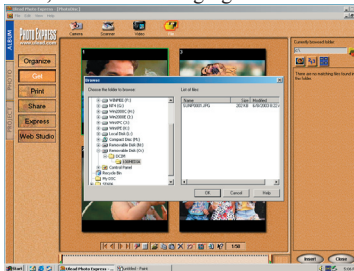


3. Downloading photos to your computer

- ④ Shut on the digital camera, switch to the preview mode.
- ④ Connect your computer and digital camera with USB cable.
- ④ Open "Photo Express"Photo processing software ,see the following figure:



- + Click "File" button under the "Obtain" menu.
- + Click "Preview Folder" menu, see the following figure.



- ☐ Choose mobile hard disk "H" or "I" \DCIM\100MEDIA
- ☐ Click "Confirm" button to download the photos in the digital camera to "Photo Express" photo processing software. See the dexter of the following figure:



4 . Installing " VideoStudio" (photo processing software)

- ☐ Click "Videostudio" button in the following figure.
- ☐ Choose the operating language you need.
- ☐ Install the software according to hints.
- ☐ Restart your computer.



5. Setting up the digital camera as PC Cam

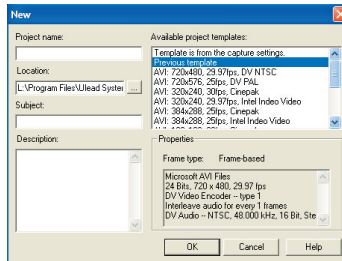
5.1 Shooting film with the digital camera

- ☐ Connect the digital camera to the computer through USB cable.
- ☐ Click "Ulead VideoStudio4.0 SE Basic" icon on the desktop to enter "VideoStudio" software.
- ☐ Click "New Item" button.

New Item



- ☐ Input the item name, file saving path and file name in the following dialog box. You may also input relevant literal information in the dialog box.



- ④ Click "Capturing Video Frequency" button to start capture. To stop capture, click this button again.

5.2 Playing movie



- ④ Click the movie file in the story board that you want to play.
- ④ Click "play" button in play control toolbar to play the selected movie file.

Remarks:

- ④ For the main functions of this software, there are corresponding Chinese hints or help menu popping up. For the concrete operation of other functions, please refer to help files.
- ④ The time of shooting depends on the size of computer hard disk.

VIII. Maintenance of the digital camera

1. Maintenance of the digital camera

- ④ If the the digital camera is not used for long time, electrical leakage may occur, therefore,

please take the batteries and cards out for separate keeping.

- ⊕ Avoid using the camera under the following environment:
- ⊕ Places with high temperature, high humidity and high corrosion.
- ⊕ The places covered with dust or sewage.
- ⊕ Explosive area or places near inflammable materials.

2. Maintenance of memory card

- ⊕ Long-term repeated use of CF card will lead to performance degradation. You need to purchase a new card for future use. Our company does not bear liability for the aging and damage of CF card.
- ⊕ CF card is a precise electronic device. Avoid breaking or great impact.
- ⊕ Please do not put CF card in strong electricity field and intense magnetic field such as the place by speaker or TV set.
- ⊕ Please do not use or keep CF card at place of high temperature, high humidity and high corrosion.
- ⊕ When the camera is used for long time, you may find CF card gets slightly hot. This is normal phenomenon.

IX. Common failures

Failure	Analysis	Solution
Failure to drive the digital camera	Incorrect installation	Reinstall the driver of the digital camera
Failure to start up	The capacity of batteries may be insufficient or batteries are not installed correctly	Replace batteries and check whether batteries are correctly installed

Flash failure	Flash mode is disabled or battery capacity is insufficient	Enter the flash mode or replace old batteries with new ones
Image blurring and double image	Hand trembling at the time of shooting	Fix the digital camera as far as possible at the time of shooting
Spotted pictures	Lens of the digital camera is dirty	Clean the lens with test paper
Failure of data download	Poor contact	Pull out and insert USB line again
Failure to take photos	No storage space	Change CF card or shoot after downloading data
The data in CF card are lost	Improper operation CF card	Format CF card and shoot again or replace CF card